

TABLE I

| cDNA | Embryo Phase | Clone | Nucleotide Sequence |
|---------------|--------------|---------|---|
| SEQ ID NO:101 | M,L | LPZ-024 | AGGTGACCGTGGATATGGGAGCAGAGCCGCCAGTGGATGCTGCAATTCAA TGAAGTGGCAGAAGCTGTGAAGACTCTCCAAATGGACAAGGCACGAAGACAAA CAAGACAAGGATGAGGGCAAGAGTGGCAACGCTGATTAGATGACTGAATGAA GGAAGTCAGCTAAAGCAGCCACAACGTGCTGTGCATGGGGCAGCATT CTACAGAATGCTCTGAAAGAAAATTGTCAGTCATGAAATGCGGGTTGGTCAA TACAAGGGAGGAAGGTGAAGTTAGAAAGAACAGAAAGGGCATCAACGCAGACCC TCACTGATATCGGCAACACTACGGTCACCTAACCCAATTCTGCAAATTCCATCA GGCGGGGGCCCGCTCCAACCTCCTAAAGGCCAATTCCCCTATGATTCTTATT ACAATCCCTGGCCCTCCTTCCACTTCT |
| SEQ ID NO:102 | M,L | LPZ-025 | AGGTGACCGTAGCAGGAGAGAGGAGATCCACAACCATTGGTTTCGTCAAAGCCC GAAAACCAGGGCTACTTCAAGAGGTTCAAGGTCAAATTCAAGCGCAGGAGAG GGGAAGACCGATTACAGGGCAAGGATCCGCCTGATTAACCAAGATAAGAACAGTA CAACACACCCCTGCCAAAAAAAAAAAAAA |
| SEQ ID NO:103 | Middle | LPZ-026 | AGGTGACCGTATGAGCAAGGAGGGAACAGTATGACAGGCAGTCAAAGCCCACGAG GGGTGCCCACTGCCTGCAGCAGCGCACTTACTTGGACTAACAAACTGTATCGTG ATTAACACGATGAACATCGTATTGAGTGGAGCCACTCGTGACCTGATTCTGTC CTAAGTACTTGGTCCCTGGAATACAATATTGCACGGTCACCT |
| SEQ ID NO:104 | All | LPZ-028 | AGGTGACCGTCAAAGTACAATGGAGTCATATATCCACTTGAATTGAAACCTCTAATT TAAAAGTTCTAAAAATATTTATTACAAAACAGGGAAAATAAAAATGACTCTAT CAACTATACAATCCTAACATCCATCTCCGACAGACCTCCAGTATATGTACAAGGC GCTGAAAGAAGGCTGATTATTTCATTCCAGCTCGCATAACGTGGTTCTTGAG GCTTGCCTATTCCCTTAAATCTTCAGCAGAAAGATTGGCATTGACCTTCG GCTAAATCTCAGACTCCAGGGAACCTGGACTCCCTTAAACCTAGAGCTACTTT TACGAACCCCTGCTCTCTGAACACTTAGGAACTTACACTACAAAACCTCGGGA ACTCCACCCCTAGCTTGCAGGACTCCAGCAGATTCCCCAAACTGCCAGAAGGCA TATTCCATGCACTGTTAGGGTGAATTCTACTATCAAACCCCCAAACATCATA |
| SEQ ID NO:105 | Late | LPZ-029 | AGGTGACCGTATGGGACAAAGTATGGGACAAGAACGTTATTACATAAAAGATGGA GATGCAACACAGCATAAATTGATGCTAAGTTGTTACAATGATGCATACAGCTTAAC CAAGCTGGAAATGACATCATTAAGTGCAGGTACAGCCTCTGCATAGTATTCTCT GCCTTGGGTGTATCCTGCCTTGAGCGTAGTCCAGGTTGTCAAGGGTTGTCAA AAAGCTTGGTGGTGAAGGTTTGAGGGGCTTCTTGGCTTGGCTTGGAGGAG GATAACGGTGGTGAAGTCCTAGCGAAAGTAAGAACCTTGGAACCGAAGTCCG TTCTTGACGTTACCGCACGCCCTCTTATCTACACTTTCACCTCAGAAATTGC TTCCCGAATCCCTGCTCTCCACCCCCCTGTTCCCC |
| SEQ ID NO:106 | Late | LPZ-030 | AGGTGACCGTAGTGGTGCAGATACAGTGAGGGGCTGCCTGATGCCCTTCTG TTCTTCTACTTCACCCCTCTCTTGTATTGAAACCAACCCGCATTCTATGACTCGA CAAATTTCTTCAGAGCATTCTGTAGTAATGCTGCCCATGCACAGCAAGCAGTTG TTCGGCTGCTTAGCTTGAATTCCATTCAAGTCATCTGAATCAGCGTTGCC ACTCTGCCCTCATCCTGTCTTGTTGTCTCCGTGCCTGTCCATTGGAGAG TCTTCACAGCTCTGCCACTTCAATTGAATTGCAGCATCCACTTGCGGAACGGTCT GCTCCCCATATCACGGCACCTT |
| SEQ ID NO:107 | Late | LPZ-031 | AGGTGACCGTAGTGGTGCAGATACAGTGAGGGGCTGCCTGATGCCCTTCTG TTCTTCTACTTCACCCCTCTCTTGTATTGAAACCAACCCGCATTCTATGACTCGA CAAATTTCTTCAGAGCATTCTGTAGTAATGCTGCCCATGCACAGCAAGCAGTTG TTCGGCTGCTTAGCTTGAATTCCATTCAAGTCATCTGAATCAGTGGTCT ACTCTGCCCTCATCCTGTCTTGTTGTCTCCGTGCCTGTCCATTGGAGAGT CTTCACAGCTCTGCCACTTCAATTGAATTGCAGCATCCACTTGCGGAACGGTCT CTCCCATATCACGGCACCTT |

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BY THE ATTORNEY FOR THE APPLICANT

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| cDNA | Embryo Phase | Clone | Nucleotide Sequence |
|---------------|--------------|---------|---|
| SEQ ID NO:108 | Late | LPZ-032 | AGGTGACCGTCGTAAATAGCGAGAACGGCGTGGAACATCGCAACGGCGGGAG GCTGGCGGACGTTGCACGTTCTGGAAGGTATGCGGCTCTCCCTCCGCCTCAGT TTCCATGAAGAGGTCCTCCCTGGTTGAATCATACGATTGCGATTGAGTACTT GCTGTATGGCTCGGCATCGGCATTGGAGACATTCTTCCATTCCCTCGCAGCAT CTCTCCGATGGTTGCTCTCCGGAGCTCCATGTTATCCCCGGACTGAGACAGTC GCTGCCGAATCGCAAGAGCTTCTTGTTTGCAGGCTCTCAAACATAATGCCT CCGGGCCCTCAACCGAATTCTGCCAAATCCACCCCC |
| SEQ ID NO:109 | E,L | LPZ-033 | AGGTGACCGTGGACGACAGTGAGTCAGTCATCATGCTCTCCAGTGGACTTTAAG CAATCTGCATCTTATGGAAGTGATGTATCTTGTGGTTTCATGCTCAACCATT GGCAGTCTCAACAGTGCTGCAACAATGGGCATAACGTCTCCGAATTAAATTGAAA CTATTGTGAATCAACAGATAGGTTCTGGTCACATCTAGCAATAACAAACACAATAA CTGTGGAACAGAGGCCACAAAACATGCTCAGAGCATCTAATTACACATATCTTCTC TAAAACCCCTGCATAAAAATAACTGAATCTGACCTTAGCACTATTGCCACCATC ATCTCAAGCAAACATTCTAGAATACCATCTCACAAATGCACTAAAGTTACATAAG CACTGAACCTAAAACATTCTGTGACGAATGAAGGACCAATTCACTACTCAGCCT TTGCATCCAATCTGTTGAATGTGCTGAAAAATGCCAATAAACCTCCATCCAACACT GTCTTCCCTCTGAGGTGCACACTGATTCTGCTGTAACCGAGTCGGGATTCCCT GCTCAACGTCCC |
| SEQ ID NO:110 | Middle | LPZ-034 | AGGTGCCCGTGGAACTACTGTTAAATCTGGAATCCCTGTCTAGCTGTAAAAC GACAAGTGCATGTTGGTATTAGTAGGGTTAACAGAAGGGTCTTACCCAGATTAC CCCTTGGCGGAGATATTAAAAAAAAAGAATTGTCATTATGGTAAATAGGTGTGAC AGTTATCAATAGAATACTGACGAGAGTAAACTGATAATTATAAGTTAAAGTGT TCGTAAGGAGACTGGACTCTAGGTTGGATGCCTACACTTAGAGCCGTTCCGCA CTTGGACGGTCACCT |
| SEQ ID NO:111 | Middle | LPZ-035 | AGGTGACCGTCCAGTGGGGAACGGCTCTAAGTAGGCTACCCACCTAGAGTCCA AGTCTCCTTACGAACACTTAACCTTAATAATTATCAGTTACTCTCGTCAGTTATT CTATTGATAACCTGTCACACCTATTACCTAAATGACAATTCTTTTTAAATATCT CCGCCAAAGGGTAAATCTGGTAAGAACCCCTCTGTTAACCTACTAATACCAAC ATGCACTGTCGAGTTTACAGCTAGACAAGGGATTCCAGATTAAACAGTAGTTCC ACGGTCACCT |
| SEQ ID NO:112 | Late | LPZ-037 | AGGTGACCGTATGGAAACAAGAACGTTATTACATAAAAGATGGAGATGCAACACAG CATAAATTGATGCTAAGTTGTTACAATGATGCATACAGCTAACCAAGCTTGGAAA TGACATCATTAAGTGCAGGTACAGCCTCTGCATAGTATTCTCTGCCTGGGTGTA TCCTTGCTCCTTGCGAGCGTAGTCCAAGTTGTCAAGGGTGTAAAAACTTGGTGGT GAAGGTTTGAAGGGCTCTCTGGCCTTGGCTTGAAGAAATAACGGTGTGTA AGTCCTTACCAAGGTTATAAACCTTGGAGCCGAAGTCGTTCTGGACGTACGGC CACCCCTCCTATCTATCAGCTTTCACCTCCAAGAATTGCTTCCCCGAATTCC TTTGCTCTCCCAGCCGCTGGTCCCCGAAAAGGGCTGAATATAAACCGTCTCA ACGGCATTCCATTCTCCCTCGTCTGAAACACTTCCCCGCTGCCCGAGGTGAA GGGCATCAACTTGATGAACGGCTTGTCAAGGCTCTGACCCCCGGCCCCGTCACT AACCAATTCTGCAATC |
| SEQ ID NO:113 | Middle | LPZ-038 | AGGTGACCGTGGGGAACAAACTACATGACAAATCATTCTTGTGGATGACTG GACACCAAATAAGTGTGAGAGTCCACTGGCTCTGTACGCGTGGCAGAACACAAAC GGACTTGAGAAAGTGAAGAGTGAATTGTATCGCTAGATGCCAGACCATGTTGC TTCAAGGGATGCACTCGTAACCCCCACAGTCTGTCTACCCACTAGATGGAGGCT GACATGAGACATGGAGACATTAATTGGTTGTGGAGTTAAAGATCTCTCACGTTG GGAAAATCCAAGCCATCATACTTATATCCGTCCCGTGCATGTAACCTCCTCCA CTCTGTCCCTAGGCCGTTGTGCCT |

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| cDNA | Embryo Phase | Clone | Nucleotide Sequence |
|---------------|--------------|---------|--|
| SEQ ID NO:114 | E,L | LPZ-039 | AGGTGACCGTATGAGCAAGGAAANNACCGCACTGGCTCCAGCAGCATGAACANC CAGGTCCCAACCATTANACCNCNTGGAGAANGTGATCAAGATATTAGCGACAGTGTN ATTGTACNTCTNCACAAACACATTATACACGATAAGAGAGCNTAAACTACTCTATT CTTGACGNAGTGAACNTGAGTANAAGCGATCATTATCTGCNAACTTGCATGA AAAACAACAAACCCACNTCCAGTTCTCTATANTCTGGCCCCACNATGAATAANANT CCTGCCATAATAATGANTCTTGTCCCCANAGANAAATTNNATAAGACAGGAGCCC ACTGTTGCTTGCATGACTACCANTCACTTAAGGCCTGCGAATCCGGTCTAAC CATCTCCATACCATNGGCANNCTTACTTCCAAC TGCCCAAGACTGTGAACAGGG CGGTCNNACCCCTATAANTTTAGCCTCTNNTCGAANCNCTNTTCGTTCCCCGG AAANCCGNTTCCCACCCCTTGGAACCTTTTTGCCGGGCCAGGCNAATT TNCAATTCCCCNCTGGGGGG |
| SEQ ID NO:115 | Late | LPZ-040 | AGGTGACCGTGGCGGAGGTTAGGAAGTTGACTTCTCATTTCTCACGCACCTCCT CTCCCTCGTAACCTCGGTGAGTCGATGGCGGCTTTAGTCGAGTGTGCTAACG CACCCCTCCGGGCCTCAAAATTCCAGCTACTCGTATTGATCAATGCTGAAATCGC GTAATCACGTAGATAATAAGCGTAATGAATTCTATAATGAAGCATGTTCTCTATA GTTCATGTTGCCGAGAAGGAATAATGAAAATGAAGCCTTATATATTCTGGGGCTC AAGGAGATGTTATCTTCTCTGGTTAGAGACCGTCACCTCACTTGAATT GGATAAAGCTTCATTGTTAAGACCTCCCACCCGTAACATACGGTAGCCTCT TATGTTAGAAACATACGTACCTACGCAGAATTGTTAGAATGAAATGA |
| SEQ ID NO:116 | Late | LPZ-041 | AGGTGACCGTGGAAACAAGATGATTAGTTCTCATGCCGGCCAGGATGATTAGTTCTC CTATGGCAACTGTTGGACAGGATGATTGTTCTCCTGTGGACAGGATGATTGTT TCCTATCGAGGCATCCTACCCAAGCAGTTGGGACTCATGGGAAGTACCTCTCATC TGATCAATGAGTAGGAAATGGGTTAGGGACCATTAAAGTAGTATTATCGATGGATG CATTGTTGATCTATTGACTCCCTATGCTAGAATGAACTCCATTGATCTGGGATCA ATGAATACTGTTCTGGGAATCATTGAAAATTGATGAACACACTCTGAACACTGA ATTCCGGTTATTGGAAGAGATGGTTAACACTCTCCTCATCTCATTCTCCC CTTCCTTATTCCAACCAAATTGGGCCACCCGTCCAGGAAATTGATGGTTGG AAAATACCACGGGCCCTAACCAATTCTGCAA |
| SEQ ID NO:117 | Late | LPZ-042 | AGGTGACCGTNATCTTACCATNATNCCTCCCTCCGNCTGTATCANCGGCNTN NANGTCNTNNCTANNNAAGNTTAATCCTATCCNTTANAGTTGACGGTCTCTAN NCCTAGAAGAGAACCCATAACATCTCCTTGAGCNACACATGGGATACCGCCANC TTATNTAATACTTCNCNGCACGTAACNGACCANAANCATTCTCACTATAGAATT CATGTCGCTTCATTATCTACCTCATTNCNCCANATCCCCCTTNATCTCATNNATTAT CTAGAAANTTCTGAAGNTCCNNAAGGGTCTGGTTGCACCNCCCAANTAAAAAN CCCTNCCGNTTACNTCGAACGAAGGTTCAAANGAACAGNAATTCTTACAAAAAA TCAANAATTAACTTCCNAATCCGGCCCCNGTNCCGAAACCCNATTCTAC GATTGCATCACCCGGGGNCCNCTCAANCCNCTTAAAGGNCATNCCNT NNNTGATCCTCTNCCATCCAANGGCNCCTTCCACTTTATTGGAAAACCCCNNT CCCCNTTTACCCTTNNAAGGCCCTTCCC |
| SEQ ID NO:118 | Late | LPZ-043 | AGGTGACCGTGGAACTACTGTTAAATCTGGAATCCCTGTCTAGCTGTAAAACCTC GACAAGTGCATGTTGGTATTAGTAGGGTTAACAGAAGGGTTCTTACCCAGATTAC CCCTTGGCGGAGATATTAAAAAAAAGAATTGTCATTATGGTAAATAGGTGTGAC AGGTTATCAATAGAATAACTGACGAGAGTAAACTGATAATTATTAAGGTTAAAGTGT TCGTAAAGGANACTGGACTCTAGGTTGGATGCCTACACTTAGAGCCGTTCCGC ACTTGGACGGTCACCT |

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